

Pulsed LASER Sensing Technology

Model LD 90-450

IDEAL FOR:

Non-contact Level measurement

- ◆ Large Silos
- ◆ Bulk Solids
- ◆ Caustic Materials
- ◆ Radioactive Materials

Industrial distance sensing

Dimensional measurement

- ◆ Hot Steel Slabs

Positioning and Anti-Collision

- ◆ Cranes
- ◆ Automated vehicles
- ◆ Machinery



ADVANTAGES

“High Penetration” Technology

Small Size and High Reliability

Superior Interference Immunity

Long Range and High Accuracy

Excellent Cost-Performance Ratio

Outputs

- ◆ Analog
- ◆ Digital
- ◆ Switch

Low Power Consumption

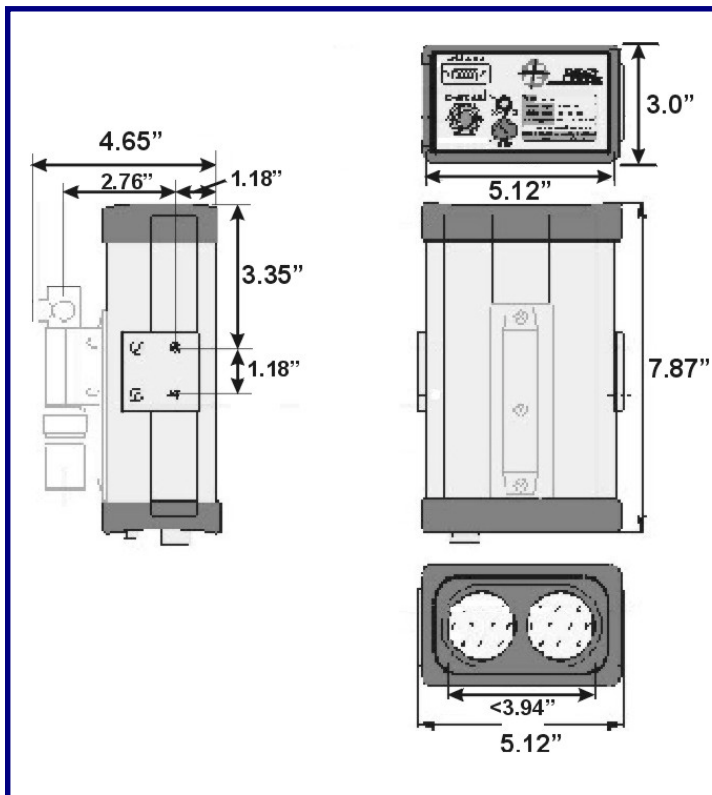
The **HiTECH/RIEGL** LD90-450 is an economically priced, high reliability distance sensor for industrial use “reflectorless” or with retro-reflecting targets.

The basic principle of laser measurement is the time-of-flight technique in which the elapsed time between when a short pulse of light leaves the instrument and when the returning reflected or scattered pulse is detected.

HiTECH/RIEGL’s “High Penetration” pulsed laser technology allows its use even under conditions of poor visibility, e.g. rain, dust, fog etc.

SPECIFICATIONS

<p>Type Pulsed Laser Distance/Level Sensing Technology</p>	<p>Data interface Serial interface RS232 or RS422 Baud rate 300 Bd ... 19200 Bd</p>	<p>Input Power 11 to 28 VDC built-in over & under voltage and reverse polarity protection power consumption 4 Watts</p>
<p>Measuring range [Depends on target reflectivity] (reflectivity > 80%) up to 500 ft. (reflectivity > 10% up to 165 ft. (w/reflector target) up to 3280 ft.</p>	<p>Analog current 4-20 mA resolution 16 Bit linearity 0.5 %</p>	<p>Case Aluminium, black anodized, rubber armoured</p>
<p>Temperature Operating +14 °F to +122 °F Storage - 4 °F to +140 °F</p>	<p>Switch outputs 2 x PNP trans. switching current 250 mA max. switch voltage = supply voltage</p>	<p>Dimensions 7.87" L x 4.72" W x 2.76" H</p>
	<p>Accuracy Typically $\pm 2"$</p>	



PERFORMANCE GUARANTEE

Since 1986, every instrument sold by **HITECH** has been guaranteed to perform in the application it originally was engineered and recommended for. Our company policy remains the same, every product sold comes with a **written performance guarantee**.

Should the equipment be unable to perform satisfactorily in your application and we are not able to correct the problem, we will accept the instrument in return and issue full credit.

This performance guarantee is valid for 60 days. Thereafter, our standard limited two years factory warranty goes into effect.